

Met	Asp	Trp	Pro	His	Asn	Leu	Leu	Phe	Leu	Leu	Thr	Ile	Ser	Ile	1	5	10	15
Phe	Leu	Gly	Leu	Gly	Gln	Pro	Arg	Ser	Pro	Lys	Ser	Lys	Arg	Lys	20	25	30	
Gly	Gln	Gly	Arg	Pro	Gly	Pro	Leu	Ala	Pro	Gly	Pro	His	Gln	Val	35	40	45	
Pro	Leu	Asp	Leu	Val	Ser	Arg	Met	Lys	Pro	Tyr	Ala	Arg	Met	Glu	50	55	60	
Glu	Tyr	Glu	Arg	Asn	Ile	Glu	Glu	Met	Val	Ala	Gln	Leu	Arg	Asn	65	70	75	
Ser	Ser	Glu	Leu	Ala	Gln	Arg	Lys	Cys	Glu	Val	Asn	Leu	Gln	Leu	80	85	90	
Trp	Met	Ser	Asn	Lys	Arg	Ser	Leu	Ser	Pro	Trp	Gly	Tyr	Ser	Ile	95	100	105	
Asn	His	Asp	Pro	Ser	Arg	Ile	Pro	Val	Asp	Leu	Pro	Glu	Ala	Arg	110	115	120	
Cys	Leu	Cys	Leu	Gly	Cys	Val	Asn	Pro	Phe	Thr	Met	Gln	Glu	Asp	125	130	135	
Arg	Ser	Met	Val	Ser	Val	Pro	Val	Phe	Ser	Gln	Val	Pro	Val	Arg	140	145	150	
Arg	Arg	Leu	Cys	Pro	Pro	Pro	Pro	Arg	Thr	Gly	Pro	Cys	Arg	Gln	155	160	165	
Arg	Ala	Val	Met	Glu	Thr	Ile	Ala	Val	Gly	Cys	Thr	Cys	Ile	Phe	170	175	180	

FIGURE 1

aggcgggcag cagctgcagg ctgaccttgc agcttggcgg aatggactgg 50
 cctcacaacc tgctgtttct tcttaccatt tccatcttcc tggggctggg 100
 ccagcccagg agccccaaaa gcaagaggaa ggggcaaggg cggcctgggc 150
 ccctggcccc tggccctcac caggtgccac tggacctggt gtcacggatg 200
 aaaccgtatg cccgcatgga ggagtatgag aggaacatcg aggagatggt 250
 ggcccagctg aggaacagct cagagctggc ccagagaaaag tgtgaggtca 300
 acttgcagct gtggatgtcc aacaagagga gcctgtctcc ctggggctac 350
 agcatcaacc acgaccccag ccgtatcccc gtggacctgc cggaggcacg 400
 gtgcctgtgt ctgggctgtg tgaaccctt caccatgcag gaggaccgca 450
 gcatggtgag cgtgccggtg ttcagccagg ttctgtgcg ccgccgcctc 500
 tgcccgccac cgccccgcac agggccttgc cgccagcgcg cagtcatgga 550
 gaccatcgct gtgggctgca cctgcatctt ctgaatcacc tggcccagaa 600
 gccaggccag cagcccgaga ccacctcct tgcacctttg tgccaagaaa 650
 ggcttatgaa aagtaaacac tgacttttga aagcaag 687

FIGURE 2

Met	Thr	Leu	Leu	Pro	Gly	Leu	Leu	Phe	Leu	Thr	Trp	Leu	His	Thr				
1					5				10					15				
Cys	Leu	Ala	His	His	Asp	Pro	Ser	Leu	Arg	Gly	His	Pro	His	Ser				
				20					25					30				
His	Gly	Thr	Pro	His	Cys	Tyr	Ser	Ala	Glu	Glu	Leu	Pro	Leu	Gly				
				35					40					45				
Gln	Ala	Pro	Pro	His	Leu	Leu	Ala	Arg	Gly	Ala	Lys	Trp	Gly	Gln				
				50					55					60				
Ala	Leu	Pro	Val	Ala	Leu	Val	Ser	Ser	Leu	Glu	Ala	Ala	Ser	His				
				65					70					75				
Arg	Gly	Arg	His	Glu	Arg	Pro	Ser	Ala	Thr	Thr	Gln	Cys	Pro	Val				
				80					85					90				
Leu	Arg	Pro	Glu	Glu	Val	Leu	Glu	Ala	Asp	Thr	His	Gln	Arg	Ser				
				95					100					105				
Ile	Ser	Pro	Trp	Arg	Tyr	Arg	Val	Asp	Thr	Asp	Glu	Asp	Arg	Tyr				
				110					115					120				
Pro	Gln	Lys	Leu	Ala	Phe	Ala	Glu	Cys	Leu	Cys	Arg	Gly	Cys	Ile				
				125					130					135				
Asp	Ala	Arg	Thr	Gly	Arg	Glu	Thr	Ala	Ala	Leu	Asn	Ser	Val	Arg				
				140					145					150				
Leu	Leu	Gln	Ser	Leu	Leu	Val	Leu	Arg	Arg	Arg	Pro	Cys	Ser	Arg				
				155					160					165				
Asp	Gly	Ser	Gly	Leu	Pro	Thr	Pro	Gly	Ala	Phe	Ala	Phe	His	Thr				
				170					175					180				
Glu	Phe	Ile	His	Val	Pro	Val	Gly	Cys	Thr	Cys	Val	Leu	Pro	Arg				
				185					190					195				
Ser	Val																	
	197																	

FIGURE 3

gccaggtgtg cagggccgtc caagcccagc ctgccccgct gccgccacca 50
tgacgtcctt ccccgccctc ctgtttctga cctggctgca cacatgcctg 100
gccaccatg acccctccct cagggggcac cccacagtc acggtacccc 150
aactgctac tcggctgagg aactgcccct cggccaggcc cccccacacc 200
tgctggctcg aggtgccaaag tgggggcagg ctttgccctgt agccctgggtg 250
tccagcctgg aggcagcaag ccacaggggg aggcacgaga ggccctcagc 300
tacgaccag tgcccgggtgc tgccggccgga ggaggtgttg gaggcagaca 350
cccaccagcg ctccatctca ccctggagat accgtgtgga cacggatgag 400
gaccgtatc cacagaagct ggccctcgcc gactgcctgt gcagaggctg 450
tatcgatgca cggacgggcc gcgagacagc tgcgtcaac tccgtgcggc 500
tgctccagag cctgctgggtg ctgcgccgcc ggccctgctc ccgcgacggc 550
tcggggctcc ccacacctgg ggcccttgcc ttccacaccg agttcatcca 600
cgtccccgtc ggctgcacct gcgtgctgcc ccgttcagtg tgaccgccga 650
ggcgtgggg cccctagact ggacacgtgt gctccccaga gggcaccccc 700
tatttatgtg tatttattgt tatttatatg cttcccccaa cactaccctt 750
ggggtctggg cattccccgt gtctggagga cagccccca ctgttctcct 800
catctccagc ctcagtagtt gggggtagaa ggagctcagc acctcttcca 850
gcccttaaag ctgcagaaaa ggtgtcacac ggctgcctgt accttggtc 900
cctgtcctgc tcccggcttc cttacccta tcaactggcct caggccccgc 950
aggctgcctc ttcccaacct ccttgaagt acccctgttt cttaaacaat 1000
tatttaagtg tacgtgtatt attaaactga tgaacacatc cccaaaa 1047

FIGURE 4

ggcagcaggg accaagagag gcacgcttgc ccttttatga catcagagct 50
 cctggttctt gctccttggg actctgggac ttacaccagt ggcacccctg 100
 gctcnnnnnn nnnnnaattc ggtacgaggc tggggttcag gcgggcagca 150
 gctgcaggct gaccttgcag cttggcggaa tggactggcc tcacaacctg 200
 ctgtttcttc ttaccatttc catcttcctg gggctgggcc agcccaggag 250
 ccccaaaagc aagaggaagg ggcaagggcg gcctgggccc ctggtccctg 300
 gccctcacca ggtgccactg gacctggtgt cacggatgaa accgtatgcc 350
 cgcattggagg agtatgagag gaacatcgag gagatgttgg ccagctgag 400
 gaacagttca gagctggccc agagaaagtg tgaggtcaac ttgcagctgt 450
 ggatgtccaa caagaggagc ctgtctccct ggggctacag catcaaccac 500
 gaccccagcc gtatccccgt ggacctccgg aggcacggtg cctgtgtctg 550
 ggcttgtgtg aacccttca ccatgcagga ggaccgcagc atggtgagcg 600
 tgccggtgtt cagccagggt cctgtgcgcc gccgcctctg cccgccaccg 650
 cccgcacag ggccttgccg ccagcgcgca gtcattggaga ccacgctgt 700
 gggctgcacc tgcattctct gaatcgacct ggcccagaag ccaggccagc 750
 agcccgagac catcttcctt gcacctttgt gccaaagaaag gcctatgaaa 800
 agtaaact gacttttgaa agcaaaaaaa 830

FIGURE 5

cacggatgag gaccgctatc cacagaagct ggccttcgcc gagtgcctgt 50
gcagaggctg tatcgatgca cggacggggcc gcgagacagc tgcgctcaac 100
tccgtgcggc tgctccagag cctgctggtg ctgcgccgcc ggccctgctc 150
ccgcgacggc tcggggctcc ccacacctgg ggcctttgcc ttccacaccg 200
agttcatcca cgtccccgtc ggctgcacct 230

FIGURE 6

1 MTPGKTSLSVS[LLLLL]
1 MDWPHNLLFLLTISIFLGLGQPRSPKSKRKGGQRPGLAPGP
1 MTLPLGLLFTLWLHTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAAPP
16 SLEAIVKAGITIPRNP GCPNSEDKNFPRTVMVNNLNHNHNTNTNP KRSSD
43 HQVPLDLVSRMKPYARMEEYERNIEEMVAQLRNSSSELAQRKCEVNLQLWM
51 LARGAKWGQALPVALVSSLEAAASHRGHERPSATTQCPVLRPEEVLEAD
66 YYNRSSTSPWNLHRRNEDPERYPSVIWEAKCRHLGCTNADGNVDYHMSVPI
93 SNKRSLSPWGYSINHDPSTRTPVDLPEARCLCLGCVNPFMTMQE DRSMVSV
101 THQRSISPWRYRVDTDEDRYPQKLAFACLCRGCTDARTGRETAALNSVR
116 QQEI-LVLRRE[PHCRNS ERLEKILVSVGCTCVTPIVHHVA
143 VFSQVPVRRRL--C[PPPRPT GPCRQR[AVMETI]AVGCTCIF
151 LLQSLVLRBRP--QSRDGSGLPTPGAFAEHTETFTHV[PVGCTCVL]BRSV...

FIGURE 7A

Tue Apr 27 16:58:30 1999
/home/ruby/va/Molbio/carpanda/temp/aa.out

```
59294  1 M D W P H N L L F L L T I S I F L G L G Q P R S P K S K R K G Q G R P G P L A P G P - - - H Q V P L
62377  1 M T L L P G L L F L T W L H T C L A H H D P - S L R G H P H S H G T P H C Y S A E E L P L G Q A P P

59294  48 D L V S R M K P Y A R M - - E E Y E R N I E E M V A Q L R N S S E L A Q R K C E V - - - N L Q L W
62377  50 H L L A R G A K W G Q A L P V A L V S S L E A A S H R G R H E R P S A T T Q C P V L R P E E V L E A

59294  92 M S N K R S L S P W G Y S I N H D P S R I P V D L P E A R C L C L G C V N P F T M Q E D R S M V S V
62377 100 D T H Q R S I S P W R Y R V D T D E D R Y P Q K L A F A E C L C R G C I D A R T G R E T A A L N S V

59294 142 P V F - S Q V P V R R R L C P P P - - - P R T G P C R Q R A V M E T I A V G C T C I F
62377 150 R L L Q S L L V L R R R P C S R D G S G L P T P G A F A F H T E F I H V P V G C T C V L P R S V
```

FIGURE 7B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

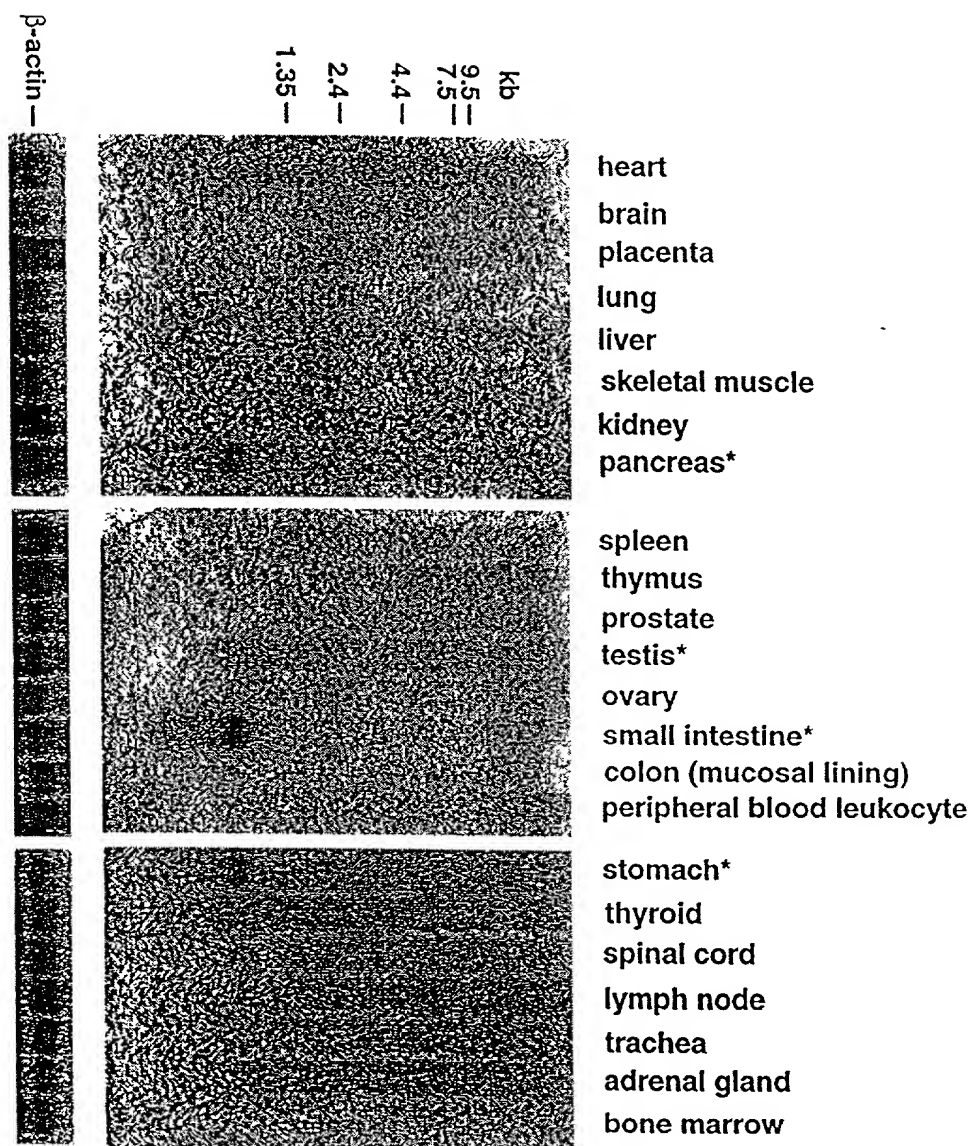
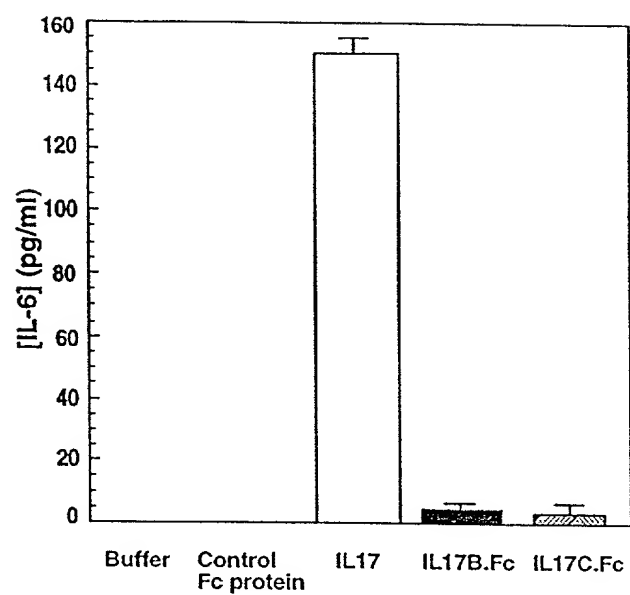


FIGURE 8

A. HFF cells



B. THP1 cells

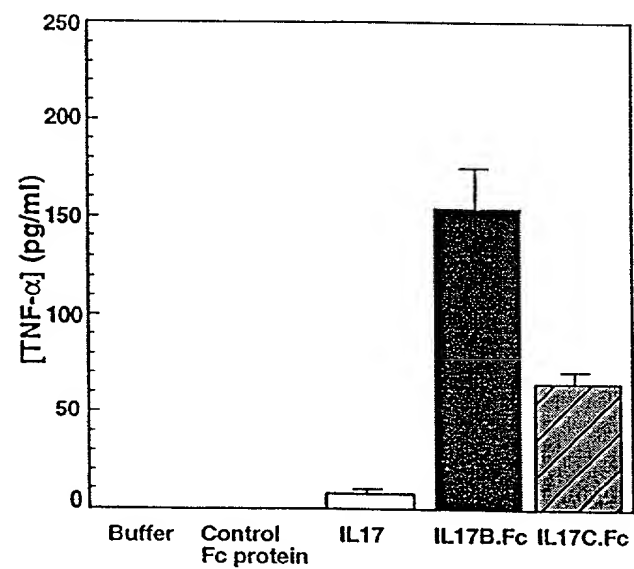
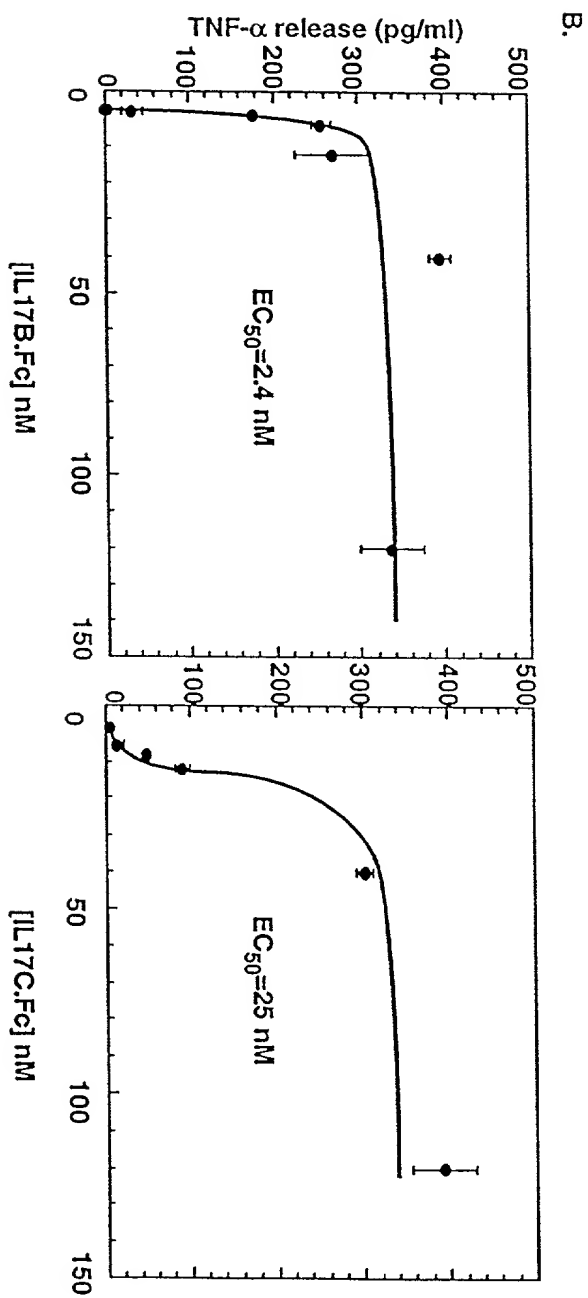
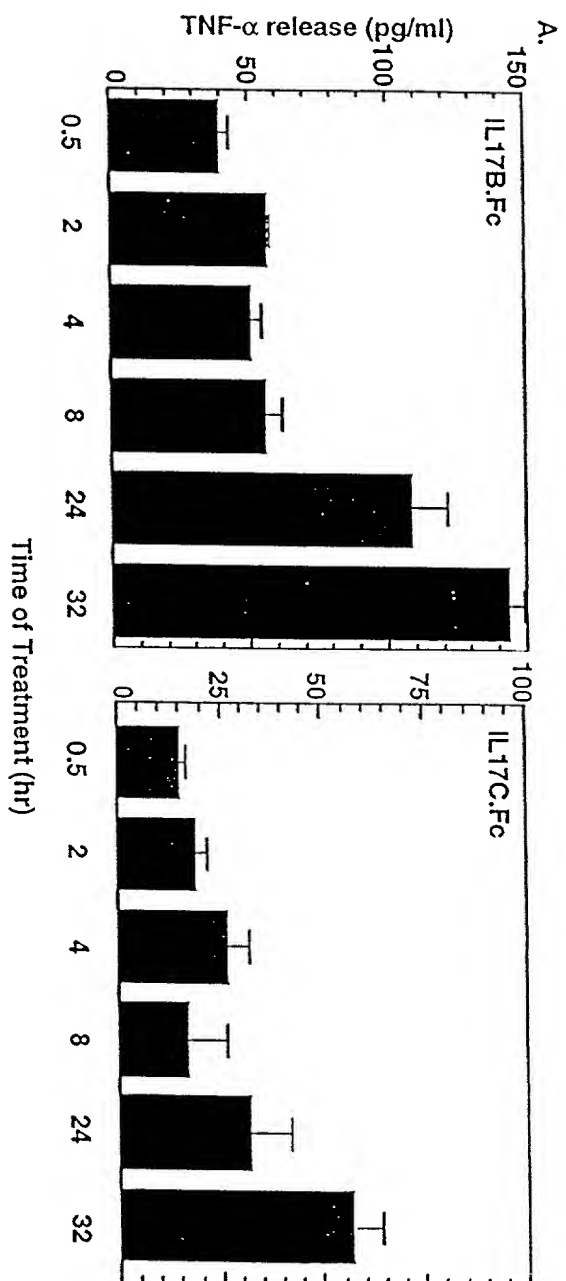


FIGURE 9

FIGURE 10



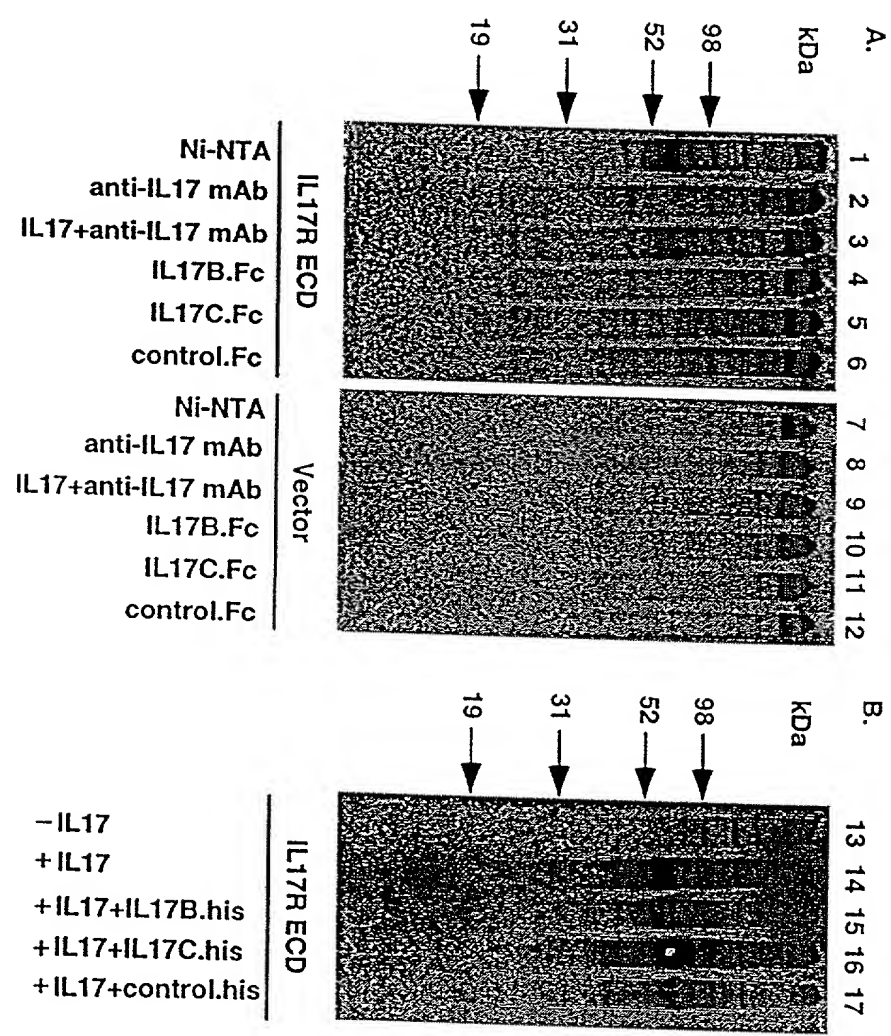


FIGURE 11

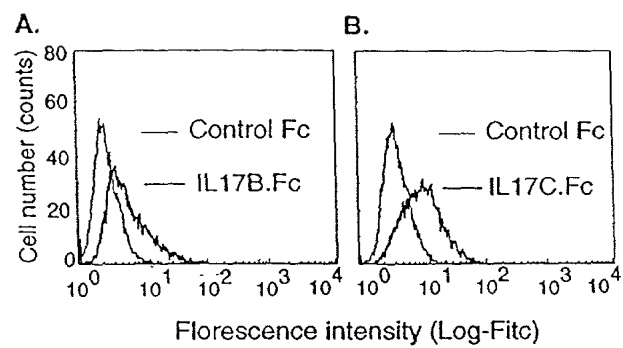


FIGURE 12

IL-17 induces breakdown and inhibits synthesis of cartilage matrix

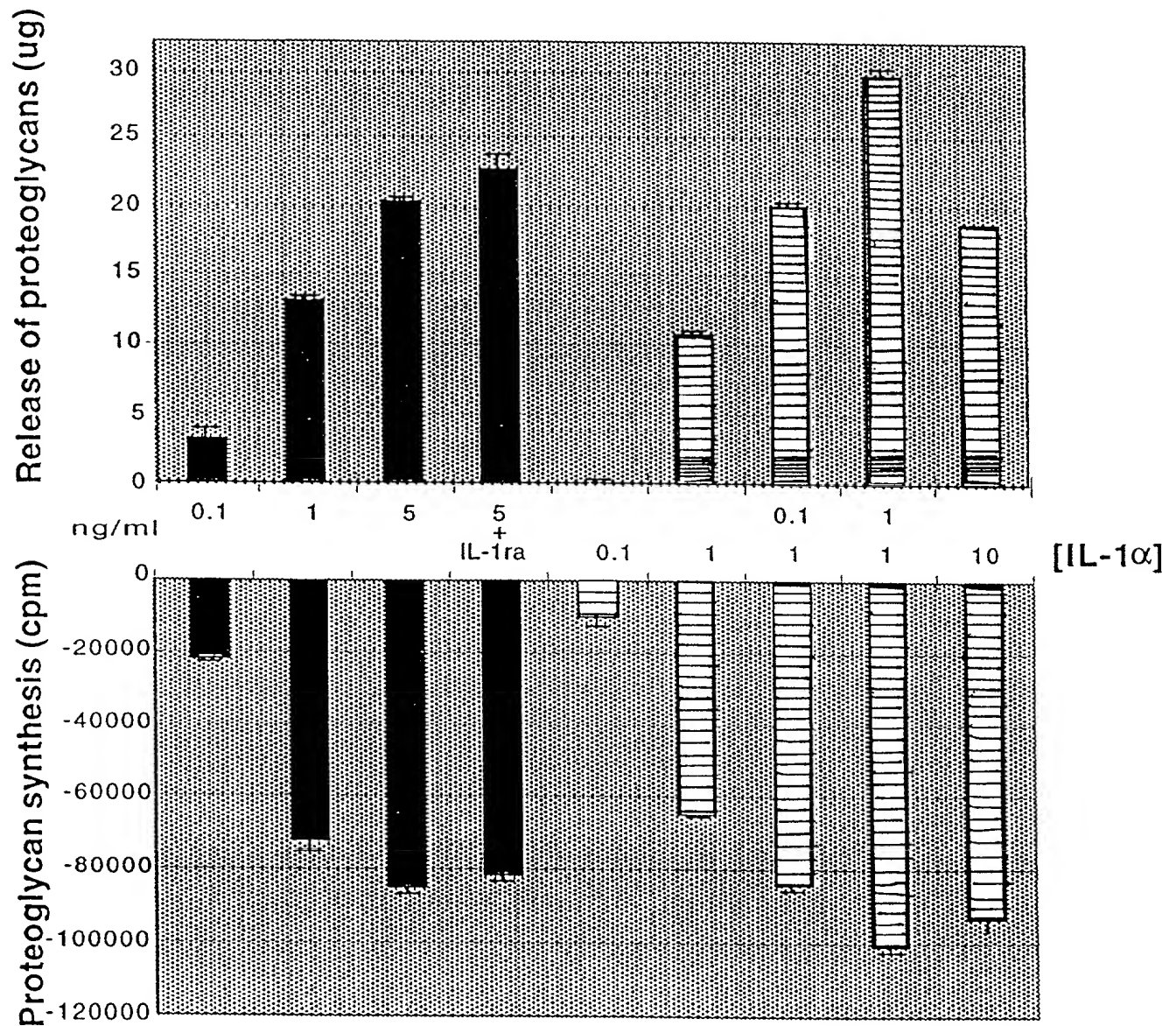


FIGURE 13

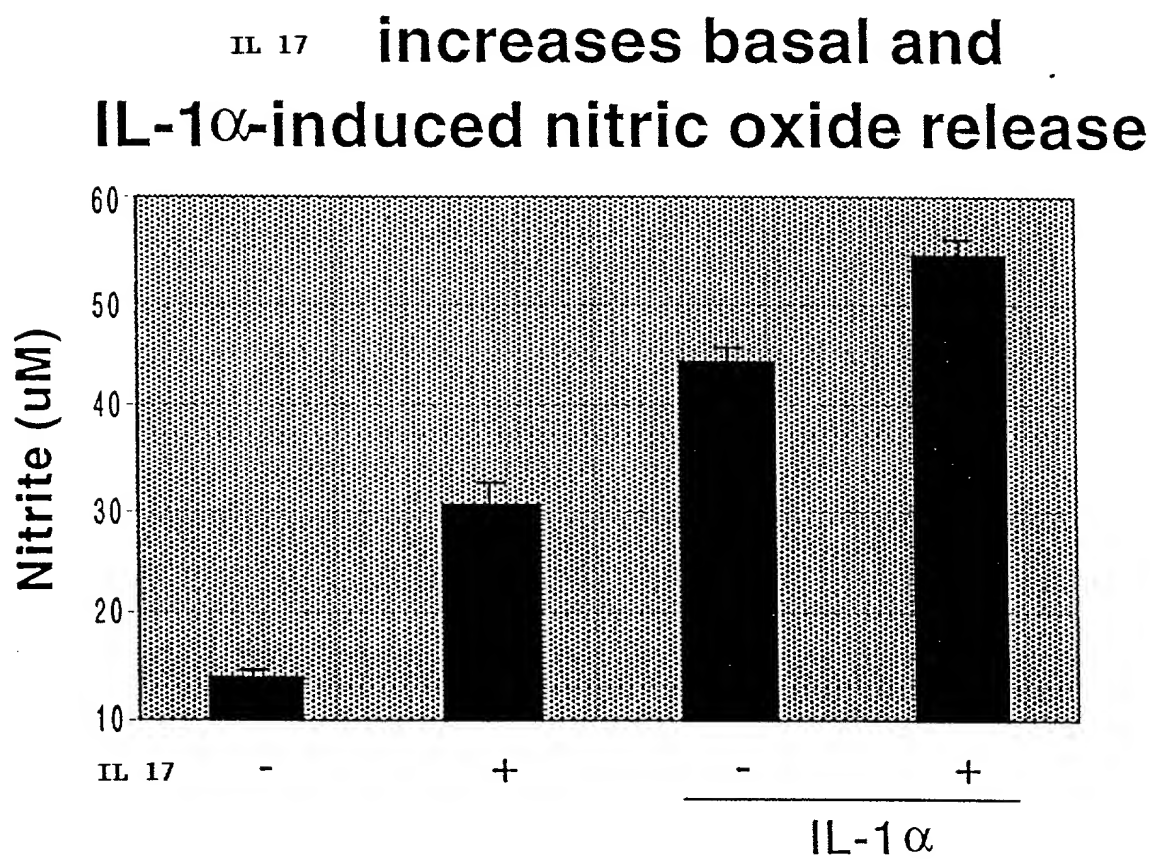
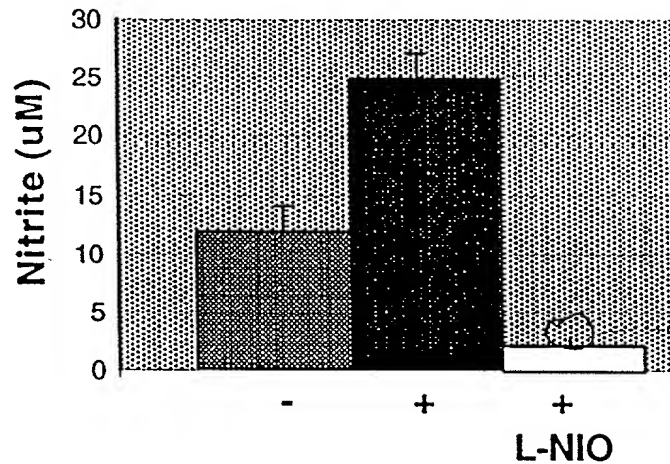


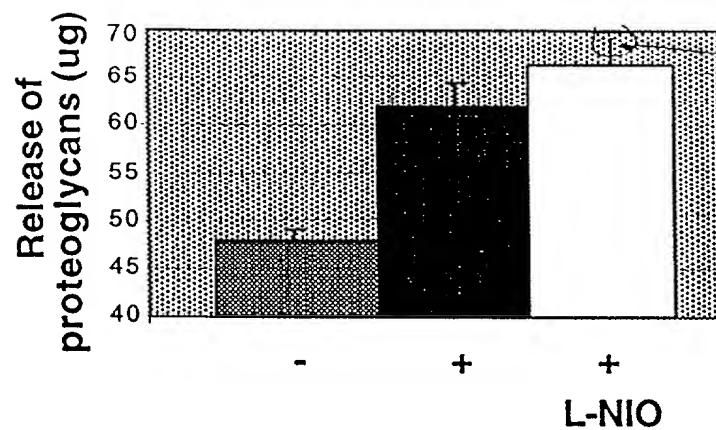
FIGURE 14

Inhibition of nitric oxide release does not block the detrimental effects of IL 17 on matrix breakdown or synthesis

A.



B.



C.

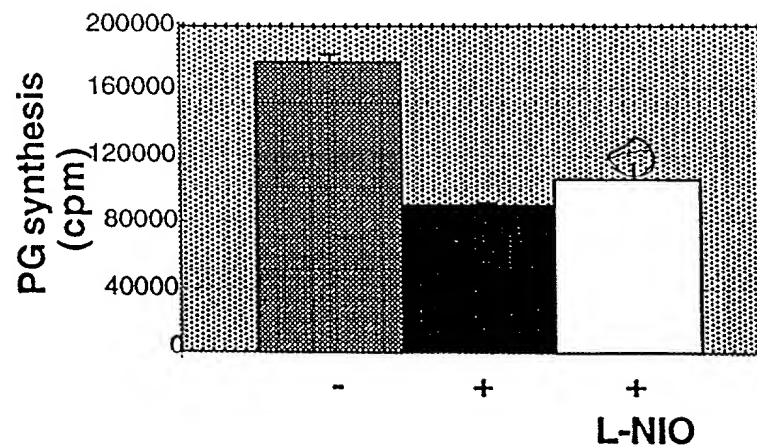


FIGURE 15

INHIBITION of NO release enhances
 IL-1- α -induced matrix breakdown
 but not matrix synthesis

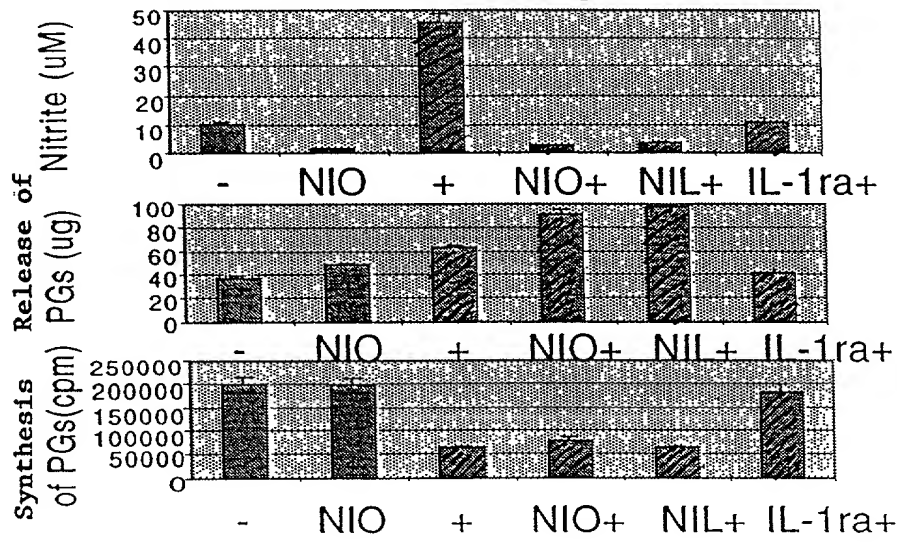


FIGURE 16

IL 17 homologue 1 (UNQ516)
has positive effects on
articular cartilage

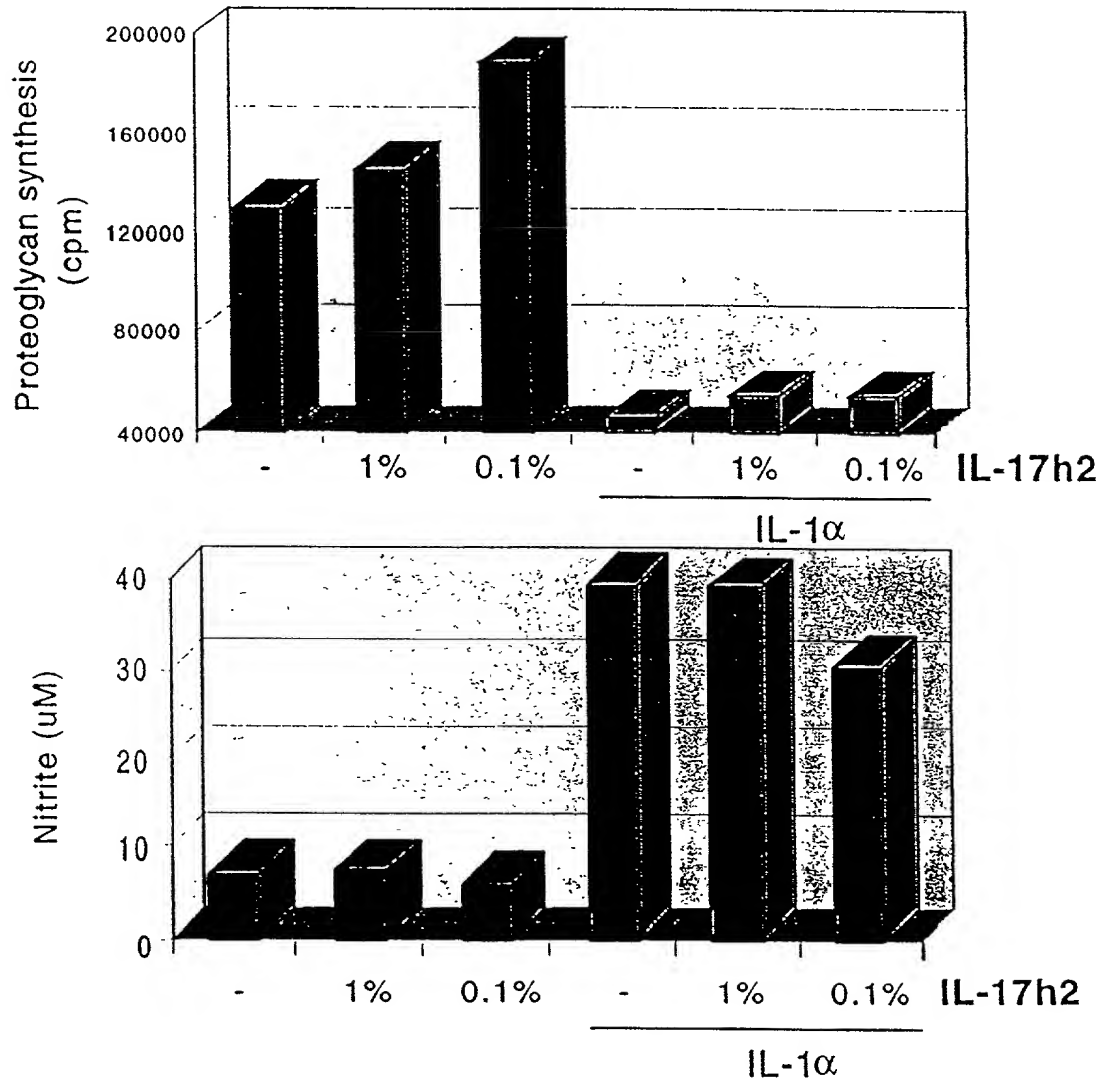


FIGURE 17

IL 17 homologue (UNQ 561) has detrimental effects on articular cartilage

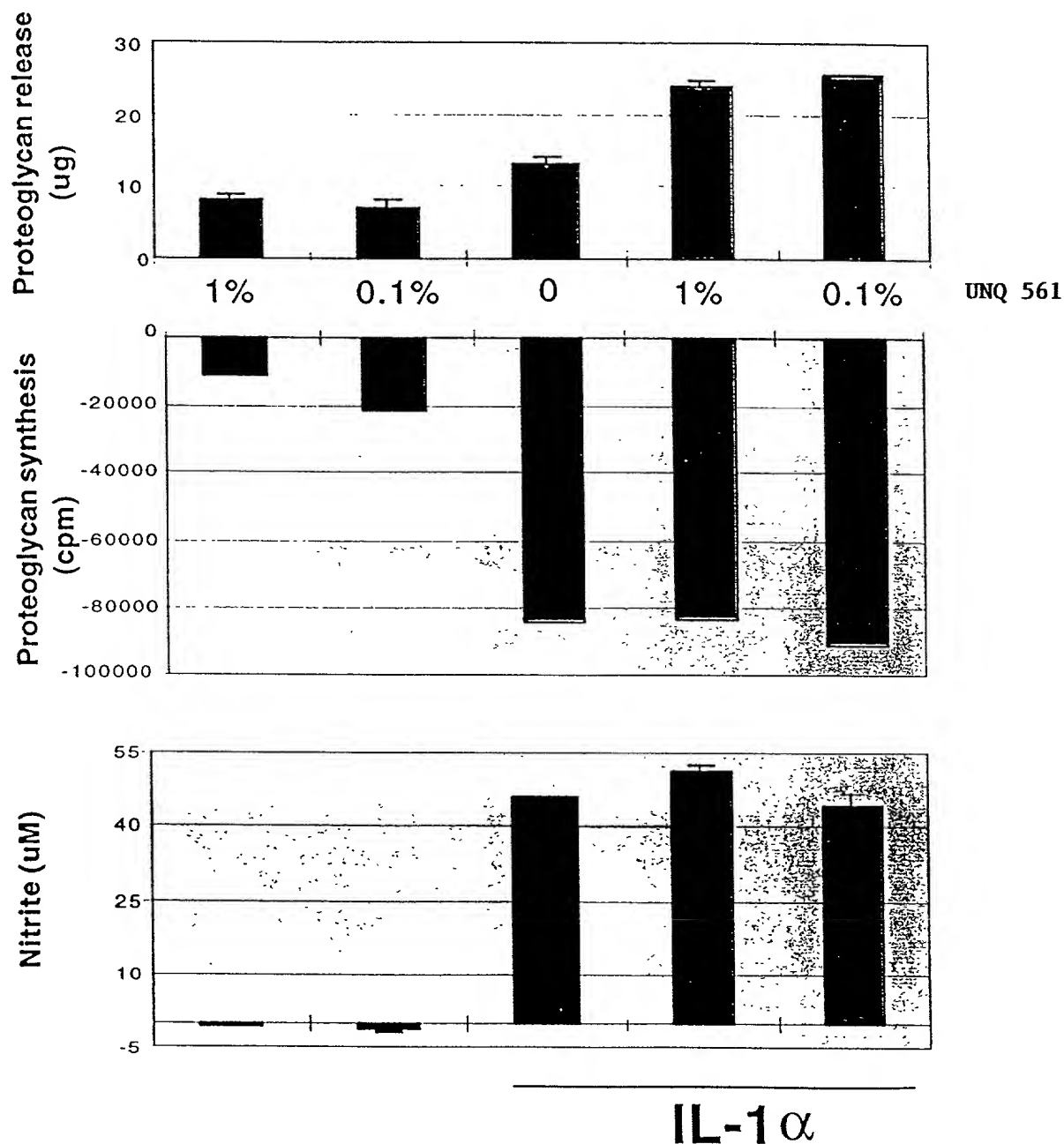


FIGURE 18